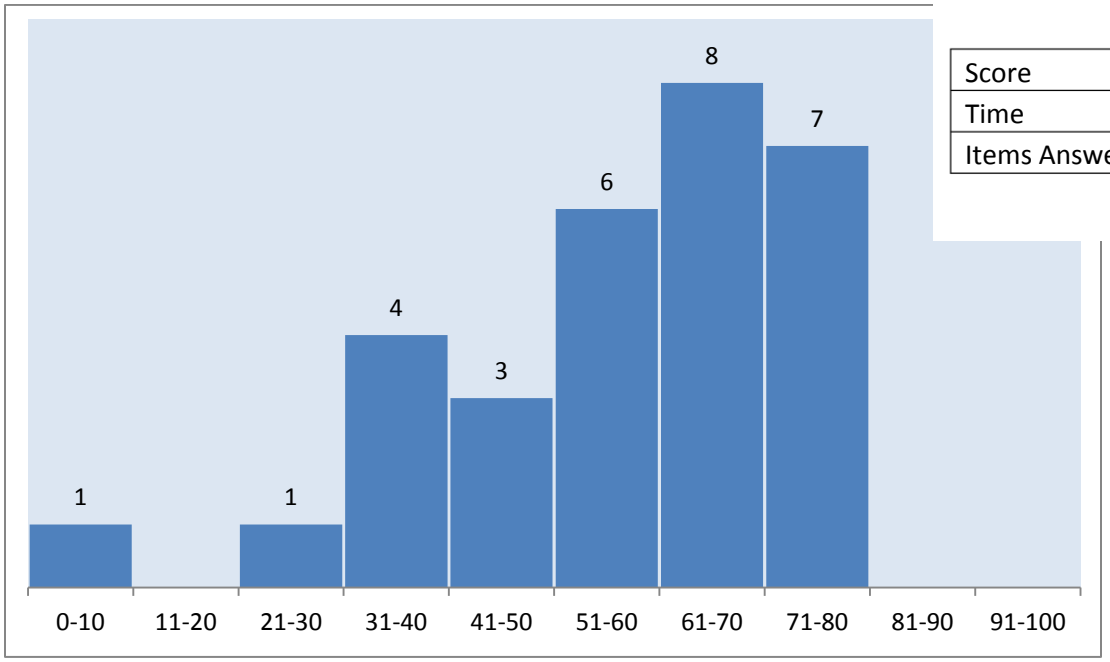
11-12 State Results

AgMET Structural Systems

30 Participants



	Min	Max	Mean
Score	0	80	55.97
Time	0:05:24	1:00:00	00:26:51
Items Answered	99	100	99.93

Average Score: 61
Cut Score: 60
Pass percentage: 58%

Assessment: AgMET Structural Systems
Number tested:30

Content Standards, Performance Standards, Indicators	NV State Averages
1) CONTENT STANDARD 1.0 : DEMONSTRATE GENERAL SHOP SAFETY PROCEDURES	84.00%
1) PERFORMANCE STANDARD 1.1 : UNDERSTAND PERSONAL AND GROUP SAFETY	84.00%
1) 1.1.1 Demonstrate personal safety precautions in an agricultural mechanics environment	93.33%
2) 1.1.2 Describe group safety precautions in an agricultural mechanics environment, including lock out/tag out procedures	80.00%
3) 1.1.3 Identify safe and unsafe working conditions in the agricultural mechanics environment	73.33%
2) CONTENT STANDARD 2.0 : DEMONSTRATE SAFE AND PROPER WELDING PROCEDURES	70.53%
1) PERFORMANCE STANDARD 2.1 : DEMONSTRATE SAFE AND PROPER TECHNIQUES IN OXY/FUEL CUTTING (OFC)	63.33%
1) 2.1.1 Demonstrate proper safety practices while operating all welding and cutting equipment	58.33%
3) 2.1.3 Properly assemble oxy/fuel apparatus	67.50%
5) 2.1.5 Properly cut mild steel to specification	56.67%
2) PERFORMANCE STANDARD 2.2 : DEMONSTRATE SAFE AND PROPER TECHNIQUES IN SHIELDED METAL ARC WELDING (SMAW)	74.72%
1) 2.2.1 Demonstrate proper safety practices while operating all welding and cutting equipment	90.00%
2) 2.2.2 Select appropriate electrodes for specific applications	73.33%
3) 2.2.3 Properly adjust SMAW apparatus	80.00%
5) 2.2.5 Produce three AWS standard welds in the flat and horizontal position	76.19%
6) 2.2.6 Identify welding electrodes using AWS electrode classification system	60.00%
3) CONTENT STANDARD 3.0 : UNDERSTAND THE PRINCIPLES OF ELECTRICITY IN AGRICULTURE	41.67%
1) PERFORMANCE STANDARD 3.1 : UNDERSTAND PRINCIPLES AND THEORIES OF ELECTRICITY	40.00%
1) 3.1.1 Describe proper safety practices applicable to agricultural electrification	50.00%
3) 3.1.3 Calculate voltage, current, and resistance using Ohms Law	35.00%
2) PERFORMANCE STANDARD 3.2 : APPLY THE PRINCIPLES AND THEORIES OF ELECTRICAL CIRCUITS	41.96%
1) 3.2.1 Describe the application of conductive and non-conductive electrical wiring components	56.67%
3) 3.2.3 Explain the function of circuit breakers and over-current protection devices	40.00%
4) 3.2.4 Explain the function and importance of grounding in electrical circuits	43.33%
5) 3.2.5 Draw and label residential electrical circuits	26.67%
6) 3.2.6 Design and build residential wiring circuits	39.05%
7) 3.2.7 Use the multimeter to measure voltage, current and resistance	53.33%
4) CONTENT STANDARD 4.0 : UNDERSTAND WATER AND WASTEWATER MANAGEMENT IN AGRICULTURAL AND INDUSTRIAL SETTINGS	20.00%
1) PERFORMANCE STANDARD 4.1 : DEMONSTRATE SAFE PRACTICES AND PROCEDURES IN AGRICULTURAL AND INDUSTRIAL WATER MANAGEMENT	20.00%
1) 4.1.1 Explain the role of water use, management and conservation in the agricultural industry	20.00%
5) CONTENT STANDARD 5.0 : UNDERSTAND THE PRINCIPLES AND APPLICATIONS IN AGRICULTURAL CONSTRUCTION	45.90%
1) PERFORMANCE STANDARD 5.1 : DEMONSTRATE PRACTICES, APPLICATIONS AND PROCEDURES OF CONCRETE IN AGRICULTURAL CONSTRUCTION	37.33%
1) 5.1.1 Use safe practices while building with concrete, including tools and equipment	60.00%
2) 5.1.2 Explain the relationship between coarse and fine aggregates and cement in a concrete mix	25.00%
3) 5.1.3 Calculate the correct volume of concrete required for a specific application	23.33%
4) 5.1.4 Construct forms needed to meet the project requirements	60.00%
5) 5.1.5 Select and apply the materials and installation procedures required to reinforce concrete to meet project requirements	53.33%
2) PERFORMANCE STANDARD 5.2 : DEMONSTRATE PRACTICES, APPLICATIONS AND PROCEDURES OF FENCING IN AGRICULTURAL CONSTRUCTION	70.00%
1) 5.2.1 Demonstrate safe practices and procedures while constructing agricultural and industrial fencing	80.00%
2) 5.2.2 Explain the types and functions of various fencing materials available to meet the requirements of the different agricultural fencing needs	76.67%
4) 5.2.4 Select and install the proper type and quantity of materials needed to complete the fencing project	61.67%
3) PERFORMANCE STANDARD 5.3 : DEMONSTRATE PRACTICES, APPLICATIONS AND PROCEDURES OF DRAFTING IN AGRICULTURAL CONSTRUCTION	70.00%
3) 5.3.3 Develop a bill of materials from a selected set of plans	70.00%
4) PERFORMANCE STANDARD 5.4 : DEMONSTRATE PRACTICES, APPLICATIONS AND PROCEDURES ASSOCIATED WITH THE CONSTRUCTION OF AGRICULTURAL BUILDINGS	41.67%
2) 5.4.2 Select appropriate design, type and materials to meet the building needs while considering building use, environment and budget	41.67%
5) PERFORMANCE STANDARD 5.5 : UNDERSTANDING APPLICATIONS OF COPPER PIPE	30.00%
1) 5.5.1 Select copper tubing and fittings for a project	23.33%
2) 5.5.2 Demonstrate how to join copper tubing with solder, flare fittings, and compression fittings	36.67%
6) PERFORMANCE STANDARD 5.6 : UNDERSTANDING APPLICATIONS OF PLASTIC PIPE	56.67%

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1) 5.6.1 Select plastic pipe and fittings for a project	40.00%
2) 5.6.2 Demonstrate how to measure, mark, cut, and join plastic pipe	73.33%
7) PERFORMANCE STANDARD 5.7 : UNDERSTANDING SURVEYING TECHNIQUES	47.08%
1) 5.7.1 Identify the systems of land measurement and legal description used in the United States	37.50%
2) 5.7.2 Explain the proper use of the tripod level	96.67%
3) 5.7.3 Explain the proper way to read a leveling rod	33.33%
4) 5.7.4 Complete the steps involved in completing a profile survey exercise	48.33%
6) CONTENT STANDARD 6.0 : UNDERSTAND PRINCIPLES AND APPLICATIONS OF SINGLE AND MULTIPLE CYLINDER ENGINES	71.33%
2) PERFORMANCE STANDARD 6.2 : DEMONSTRATE A WORKING KNOWLEDGE OF THE ESSENTIAL ENGINE OPERATING SYSTEMS	71.33%
1) 6.2.1 Classify small gas engines according to ignition, fuel, cooling, lubrication and compression systems	63.33%
2) 6.2.2 Explain functions of ignition, fuel, cooling, lubrication and compression systems and their interrelationships	73.33%
7) CONTENT STANDARD 7.0 : DEMONSTRATE BASIC SKILLS IN OPERATION, MAINTENANCE AND REPAIR OF AGRICULTURAL MACHINERY	70.00%
1) PERFORMANCE STANDARD 7.1.1 DEMONSTRATE SAFE PRACTICES AND PROCEDURES OF OPERATION, MAINTENANCE AND REPAIR OF AGRICULTURAL MACHINERY AND EQUIPMENT	70.00%
2) 7.1.2 Classify agricultural machinery according to function, type, and style	73.33%
3) 7.1.3 Explain the importance of preventive maintenance programs and keeping accurate maintenance records	71.67%
4) 7.1.4 Prepare an applicable piece of equipment for storage	63.33%
7) 7.1.7 Perform manufacturerâ€™s recommended pre-operation safety inspection	70.00%
8) CONTENT STANDARD 8.0 : IDENTIFY AND DEMONSTRATE THE PROPER USE OF AGRICULTURAL HAND AND POWER TOOLS	58.89%
1) PERFORMANCE STANDARD 8.1 : IDENTIFY GENERAL SHOP HAND AND POWER TOOLS	36.67%
1) 8.1.1 Identify and explain the safe and proper use of shop hand and power tools	36.67%
2) PERFORMANCE STANDARD 8.2 : DEMONSTRATE APPROPRIATE PROCEDURES FOR THE MAINTENANCE AND REPAIR OF HAND TOOLS	70.00%
1) 8.2.1 Determine if the tool can be safely used in its present condition or, if damaged, reconditioned/replaced	76.67%
3) 8.2.3 Repair a damaged tool to a safe working condition	63.33%
9) CONTENT STANDARD 9.0 : DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE	73.33%
1) PERFORMANCE STANDARD 9.1 : ACTIVELY DEVELOP AND PARTICIPATE IN SUPERVISED AGRICULTURAL EXPERIENCE, WHICH ENABLES STUDENTS TO OBTAIN WORK-BASED SKILLS	73.33%
1) 9.1.1 Identify and describe a career interest in agriculture or agriculture-related occupation	76.67%
3) 9.1.3 Keep accurate records as prescribed by the Nevada State FFA policies and procedures	71.67%
10) CONTENT STANDARD 10.0 : PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN FFA	68.33%
1) PERFORMANCE STANDARD 10.1 : RECOGNIZE THE TRAITS OF EFFECTIVE LEADERS AND PARTICIPATE IN LEADERSHIP TRAINING THROUGH INVOLVEMENT IN FFA	66.67%
2) 10.1.2 Explain the FFA creed, motto, salute, and FFA Mission Statement	60.00%
3) 10.1.3 Demonstrate knowledge of the history of the organization, the chapter constitution and bylaws, and the chapter program of activities	63.33%
4) 10.1.4 Demonstrate knowledge of the FFA Code of Ethics, official dress, and the proper use of the FFA jacket	76.67%
2) PERFORMANCE STANDARD 10.2 : UNDERSTAND THE OPPORTUNITIES IN FFA	73.33%
1) 10.2.1 Describe how FFA develops leadership skills, personal growth, and career success	73.33%